

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-88. (cancelled)

89. (previously presented) An item capture research system, said system comprising:

- (a) an item capture subsystem comprising a document processor and an image camera for capturing images and information from each of plurality of items each of which relates to a transaction, wherein the plurality of items are comprised of on-us items and cash letter items;
- (b) an image archive subsystem comprising an on-us items image database for storing images of the captured on-us items and a cash letter items image database for storing images of the captured cash letter items; and
- (c) a transaction data archive subsystem for storing the information captured from the plurality of items, said transaction data archive subsystem having a multiple data structures, said multiple structures of said transaction data archive subsystem being comprised of: (i) an on-us items data structure, said on-us items data structure being further comprised of an on-us items archive file that is stored offline and an on-us items archive index, wherein the on-us items archive index is an index to the on-us items archive file and is stored online, (ii) an all items data structure, said all items data structure being further comprised of an all items archive file that is stored offline and an all items archive index, wherein the all items archive index is an index to the all items archive file and is stored online,

and (iii) a cash letter items data structure, said cash letter items data structure being further comprised of a cash letter items archive file that is stored offline and a cash letter items archive index, wherein the cash letter items archive index is an index to the cash letter items archive file and is stored online; and

(d) a research engine for receiving an item request, said item request comprising a request for information stored in the transaction data archive subsystem, and directing a response to the item request, said research engine comprising a request interpreter, a request director, and a request processor; wherein on-us items are items that are drawn on a financial institution capturing the item, and cash letter items are items that are drawn on a financial institution other than a financial institution capturing the item.

90. (previously presented) The system of claim 89, wherein the on-us items data structure is further comprised of a plurality of credit transactions and a plurality of debit transactions.

91. (previously presented) The system of claim 90, further comprising an associator, wherein each of the plurality of credit transactions and debit transactions is associated with an account number via the associator.

92. (previously presented) The system of claim 91, wherein each of the plurality of credit transactions and debit transactions is comprised of MICR codeline data, a posted account number, a bank ID number and a posting date.

93. (previously presented) The system of claim 92, wherein the MICR codeline data for each of the plurality of credit transactions is comprised of an account number for an associated payee account, an amount and a credit account code.

94. (previously presented) The system of claim 93, wherein each of the plurality of credit transactions is associated with one or more corresponding debit transactions via the associator, and wherein each of the one or more corresponding debit transactions is associated with an account number associated with a payor account via the associator.

95. (previously presented) The system of claim 94, wherein the MICR codeline data for each of the plurality of credit transactions is further comprised of one or more additional data fields selected from the group consisting of a routing/transit number, a serial number and a process control field.

96. (previously presented) The system of claim 94, wherein each of the plurality of credit transactions is further comprised of at least one additional data field selected from the group consisting of a sequence number, transaction code and import source.

97. (previously presented) The system of claim 92, wherein the MICR codeline data for each of the plurality of debit transactions is comprised of a routing/transit number, an account number for the associated payor account and an amount.

98. (previously presented) The system of claim 97, wherein each of the plurality of debit transactions is associated with a corresponding credit transaction via the associator, and wherein each of the corresponding credit transactions is associated with an account number associated with a payee account via the associator.

99. (previously presented) The system of claim 98, wherein the MICR codeline data for each of the plurality of debit transactions is further comprised of at least one additional data field selected from the group consisting of a serial number and a process control field.

100. (previously presented) The system of claim 98, wherein each of the plurality of debit transactions is further comprised of at least one additional data field selected from the group consisting of a sequence number, transaction code and import source.

101. (previously presented) The system of claim 89, wherein the all items data structure is further comprised of a plurality of debit transactions.

102. (previously presented) The system of claim 101, wherein the MICR codeline data for each of the plurality of debit transactions is comprised of a routing/transit number, an account number for the associated payor account and an amount.

103. (previously presented) The system of claim 101 further comprising an associator, wherein each of the plurality of debit transactions is associated with a corresponding credit transaction via the associator, wherein each of the corresponding credit transactions is associated

with an account number associated with a payee account via the associator.

104. (previously presented) The system of claim 103, wherein the MICR codeline data for each of the plurality of debit transactions is further comprised of at least one additional data field selected from the group consisting of a serial number and a process control field.

105. (previously presented) The system of claim 103, wherein each of the plurality of debit transactions is further comprised of at least one additional data field selected from the group consisting of a sequence number, transaction code and import source.

106. (previously presented) The system of claim 89, further comprising an associator, wherein the on-us items data structure is comprised of a plurality of transactions, wherein each of the plurality of transactions of the on-us items data structure is associated with a corresponding transaction stored in the all items data structure via the associator.

107. (previously presented) The system of claim 89, further comprising an associator, wherein the cash letter items data structure is comprised of a plurality of transactions, wherein each of the plurality of transactions of the cash letter items data structure is associated with a corresponding transaction stored in the all items data structure via the associator.

108. (previously presented) The system of claim 89, further comprising an associator, wherein each of the plurality of transactions of the cash letter items data structure is associated with a corresponding transaction stored in the on-us items data structure via the associator.

109. (previously presented) The system of claim 89, wherein the on-us items image database is comprised of a plurality of images, wherein the on-us items data structure is comprised of a plurality of transactions, wherein each of the plurality of images of the on-us items image database is associated with a corresponding one of the plurality of transactions of the on-us items data structure.

110. (previously presented) The system of claim 89, wherein the on-us items image database is comprised of a plurality of images, wherein the all items data structure is comprised of a plurality of transactions, wherein each of the plurality of images of the on-us items image database is associated with a corresponding one of the plurality of transactions of the all items data structure.

111. (previously presented) The system of claim 89, wherein the cash letter items image database is comprised of a plurality of images, wherein the cash letter items data structure is comprised of a plurality of transactions, wherein each of the plurality of images of the cash letter items image database is associated with a corresponding one of the plurality of transactions of the cash letter items data structure.

112. (previously presented) The system of claim 89, wherein the cash letter items image database is comprised of a plurality of images, wherein the all items data structure is comprised of a plurality of transactions, wherein each of the plurality of images of the cash letter items image database is associated with a corresponding one of the plurality of transactions of the all items data structure.

113. (previously presented) The system of claim 89, wherein said on-us items image database is comprised of a bank ID number, an account number, and an image date.

114. (previously presented) The system of claim 89, wherein said cash letter items image database is comprised of a sorter ID number, an image date, and a sequence number.

115. (previously presented) The system of claim 89, wherein said image data archive subsystem is further comprised of a white paper image database for storing images of white paper.

116. (previously presented) The system of claim 115, wherein said white paper image database is comprised of an account number and an image date.

117. (previously presented) The system of claim 89, wherein said image data archive subsystem is further comprised of an image data index.

118. (previously presented) The system of claim 117, wherein said image data index is comprised of an image date, a sorter ID number, a sorter cycle and a sequence number.

119. (previously presented) The system of claim 118, wherein said image data index is further comprised of a database identifier.

120. (previously presented) The system of claim 89, wherein the transaction is selected from the group consisting of an ATM transaction, a wire transaction, a phone access transaction, a debit card transaction and an online transaction.

121. (previously presented) The system of claim 89, wherein said request interpreter is an all items request interpreter and is used to search the all items data structure.

122. (previously presented) The system of claim 89, wherein said request interpreter is a cash letter request interpreter and is used to search the cash letter items data structure.

123. (previously presented) The system of claim 89, wherein said request director directs a search request to the request processor.

124. (previously presented) The system of claim 89, wherein said request processor is an all entries request processor.

125. (previously presented) The system of claim 89, wherein said request processor is an all items request processor.

126. (previously presented) The system of claim 89, wherein said request processor is a cash letter items request processor.

127. (previously presented) The system of claim 89, wherein said on-us items data

structure is comprised of an on-us items file.

128. (previously presented) The system of claim 127, wherein said on-us items file is a VSAM file.

129. (previously presented) The system of claim 127, wherein said on-us items file is online.

130. (previously presented) The system of claim 89, wherein said on-us items archive file is comprised of MICR codeline data, a posted amount, a bank ID number, an account number and a posting date.

131. (previously presented) The system of claim 130, wherein said MICR codeline data is comprised of a routing/transit number, an account number and a serial number.

132. (previously presented) The system of claim 131, wherein said MICR codeline data is further comprised of a process control field.

133. (previously presented) The system of claim 89, wherein said on-us items archive file is further comprised of at least one additional data field selected from the group consisting of a sequence number, payee account number, transaction code and import source.

134. (previously presented) The system of claim 89, wherein said on-us items archive

file is a VSAM file.

135. (previously presented) The system of claim 89, wherein said on-us items archive file is stored on magnetic tape.

136. (previously presented) The system of claim 89, wherein said on-us items archive index is a VSAM file.

137. (previously presented) The system of claim 89, wherein said on-us items archive index is stored on a DASD.

138. (previously presented) The system of claim 89, wherein said all items data structure is comprised of an all entries file.

139. (previously presented) The system of claim 138, wherein said all entries file is comprised of a capture site, a capture date, and an entry number.

140. (previously presented) The system of claim 139, wherein said entry number is further comprised of block information, the block information being comprised of a block sequence number and a block amount.

141. (previously presented) The system of claim 140, wherein said block information is further comprised of batch information, said batch information being comprised of a batch

sequence number and a batch amount.

142. (previously presented) The system of claim 138, wherein said all entries file is a VSAM file.

143. (previously presented) The system of claim 138, wherein said all entries file is online.

144. (previously presented) The system of claim 138, wherein said all entries file is stored on a DASD.

145. (previously presented) The system of claim 138, wherein said all items data structure is further comprised of an all items file.

146. (previously presented) The system of claim 145, wherein said all items file is comprised of item information, said item information being comprised of MICR codeline data, an item amount, and an item sequence number.

147. (previously presented) The system of claim 145, wherein said all items file is a VSAM file.

148. (previously presented) The system of claim 145, wherein said all items file is online.

149. (previously presented) The system of claim 145, wherein said all items file is stored on a DASD.

150. (previously presented) The system of claim 89, wherein said all items archive file is comprised of item information, said item information being comprised of MICR codeline data, an item amount, and an item sequence number.

151. (previously presented) The system of claim 89, wherein said all items archive file is a VSAM file.

152. (previously presented) The system of claim 89, wherein said all items archive file is stored on magnetic tape.

153. (previously presented) The system of claim 89, wherein said all items archive index is a VSAM file.

154. (previously presented) The system of claim 89, wherein said all items archive index is stored on a DASD.

155. (previously presented) The system of claim 89, wherein said cash letter items data structure is comprised of a cash letter items file.

156. (previously presented) The system of claim 155, wherein said cash letter items file is comprised of an end point identifier, a cash letter date, a cash letter amount and a cash letter time.

157. (previously presented) The system of claim 155, wherein said cash letter items file is a VSAM file.

158. (previously presented) The system of claim 155, wherein said cash letter items file is stored on a DASD.

159. (previously presented) The system of claim 89, wherein said cash letter items data structure is further comprised of a bundle items file.

160. (previously presented) The system of claim 159, wherein said bundle items file is comprised of at least one bundle, wherein said at least one bundle is comprised of a bundle amount, a bundle time, and a bundle date.

161. (previously presented) The system of claim 160, wherein said at least one bundle is further comprised of at least one item, said at least one item being comprised of MICR codeline data and an item amount.

162. (previously presented) The system of claim 159, wherein said bundle items file is a VSAM file.

163. (previously presented) The system of claim 159, wherein said bundle items file is online.

164. (previously presented) The system of claim 159, wherein said bundle items file is stored on a DASD.

165. (previously presented) The system of claim 89, wherein said cash letter items data structure further includes a bundle items archive file.

166. (previously presented) The system of claim 165, wherein said bundle items archive file is comprised of at least one bundle, wherein said at least one bundle is comprised of a bundle amount, a bundle time, and a bundle date.

167. (previously presented) The system of claim 166, wherein said at least one bundle is further comprised of at least one item, said at least one item being comprised of MICR codeline data and an item amount.

168. (previously presented) The system of claim 165, wherein said bundle items archive file is a VSAM file.

169. (previously presented) The system of claim 165, wherein said bundle items archive file is offline.

170. (previously presented) The system of claim 165, wherein said bundle items archive file is stored on magnetic tape.

171. (previously presented) The system of claim 165, wherein said cash letter items data structure is further comprised of a bundles items archive index, wherein the bundle items archive index is an index to the bundle items archive file.

172. (previously presented) The system of claim 171, wherein said bundle items archive index is a VSAM file.

173. (previously presented) The system of claim 171, wherein said bundle items archive index is online.

174. (previously presented) The system of claim 171, wherein said bundle items archive index is stored on a DASD.

175. (previously presented) An item capture research method, said method comprising:

- (a) capturing images and information from a plurality of items each of which relates to a transaction, wherein the plurality of items are comprised of on-us items and cash letter items;
- (b) storing images of the captured on-us items in an on-us items image database and storing images of the captured cash letter items in a cash letter items image

database; and

(c) storing the information captured from the plurality of items in multiple data structures, said storing step being comprised of: (i) storing on-us items in an on-us items data structure, said on-us items data structure being further comprised of an on-us items archive file and an on-us items archive index, wherein the on-us items archive index is an index to the on-us items archive file, storing the on-us items archive file offline and storing the on-us items archive index online, (ii) storing all items in an all items data structure, said all items data structure being further comprised of an all items archive file and an all items archive index, wherein the all items archive index is an index to the all items archive file, storing the all items archive file offline and storing the all items archive index online, and (iii) storing cash letter items in a cash letter items data structure, said cash letter items data structure being further comprised of a cash letter items archive file and a cash letter items archive index, wherein the cash letter items archive index is an index to the cash letter items archive file, storing the cash letter items archive file offline and storing the cash letter items archive index online; and

(d) receiving an item request, said item request comprising a request for information stored in step (c), and directing a response to the item request;

wherein on-us items are items that are drawn on a financial institution capturing the item, and cash letter items are items that are drawn on a financial institution other than a financial institution capturing the item.

176. (previously presented) The method of claim 175, further comprising storing a

plurality of credit transactions and a plurality of debit transactions in the on-us items data structure.

177. (previously presented) The method of claim 176, further comprising associating each of the plurality of credit transactions and debit transactions with an account number.

178. (currently amended) The method of claim[178]177, further comprising instructions for storing MICR codeline data, a posted account number, a bank ID number and a posting date for each of the plurality of credit transactions and debit transactions.

179. (previously presented) The method of claim178, further comprising storing MICR codeline data comprising an account number for an associated payee account, an amount and a credit account code for each of the plurality of credit transactions.

180. (previously presented) The method of claim 179, further comprising associating each of the plurality of credit transactions with one or more corresponding debit transactions, and associating each of the one or more corresponding debit transactions with an account number associated with a payor account.

181. (previously presented) The method of claim180, further comprising storing MICR codeline data comprising one or more additional data fields selected from the group consisting of a routing/transit number, a serial number and a process control field for each of the plurality of credit transactions.

182. (previously presented) The method of claim 180, further comprising storing at least one additional data field selected from the group consisting of a sequence number, transaction code and import source for each of the plurality of credit transactions.

183. (previously presented) The method of claim 178, further comprising storing MICR codeline data comprising a routing/transit number, an account number for the associated payor account and an amount for each of the plurality of debit transactions.

184. (previously presented) The method of claim 183, further comprising associating each of the plurality of debit transactions with a corresponding credit transaction, and associating each of the corresponding credit transactions with an account number associated with a payee account.

185. (previously presented) The method of claim 184, further comprising storing MICR codeline date comprising at least one additional data field selected from the group consisting of a serial number and a process control field for each of the plurality of debit transactions.

186. (previously presented) The method of claim 184, further comprising storing at least one additional data field selected from the group consisting of a sequence number, transaction code and import source for each of the plurality of debit transactions.

187. (previously presented) The method of claim 175, further comprising storing a

plurality of debit transactions in the all items data structure.

188. (previously presented) The method of claim 187, further comprising storing MICR codeline data comprising of a routing/transit number, an account number for the associated payor account and an amount for each of the plurality of debit transactions.

189. (previously presented) The method of claim 187, further comprising associating each of the plurality of debit transactions with a corresponding credit transaction , and associating each of the corresponding credit transactions with an account number associated with a payee account.

190. (previously presented) The method of claim 189, further comprising storing MICR codeline data comprising at least one additional data field selected from the group consisting of a serial number and a process control field with each of the plurality of debit transactions.

191. (previously presented) The method of claim 189, further comprising storing at least one additional data field selected from the group consisting of a sequence number, transaction code and import source for each of the plurality of debit transactions.

192. (previously presented) The method of claim 175, further comprising associating each of a plurality of transactions stored in the on-us items data structure with a corresponding transaction stored in the all items data structure.

193. (previously presented) The method of claim 175, further comprising associating each of a plurality of transactions of the cash letter items data structure with a corresponding transaction stored in the all items data structure.

194. (previously presented) The method of claim 175, further comprising associating each of a plurality of transactions of the cash letter items data structure with a corresponding transaction stored in the on-us items data structure.

195. (previously presented) The method of claim 175, further comprising associating each of the plurality of images of the on-us items image database with a corresponding one of the plurality of transactions of the on-us items data structure.

196. (previously presented) The method of claim 175, further comprising associating each of the plurality of images of the on-us items image database with a corresponding one of the plurality of transactions of the all items data structure.

197. (previously presented) The method of claim 175, further comprising associating each of the plurality of images of the cash letter items image database with a corresponding one of the plurality of transactions of the cash letter items data structure.

198. (previously presented) The method of claim 175, further comprising associating each of the plurality of images of the cash letter items image database with a corresponding one of the plurality of transactions of the all items data structure.

199. (previously presented) The method of claim 175, further comprising storing a bank ID number, an account number, and an image date in said on-us items image database

200. (previously presented) The method of claim 175, further comprising storing a sorter ID number, an image date, and a sequence number in said cash letter items image database.

201. (previously presented) The method of claim 175, further comprising storing images of white paper in a white paper image database.

202. (previously presented) The method of claim 201, further comprising storing an account number and an image date in said white paper image database.

203. (previously presented) The method of claim 175, further comprising providing an image data index.

204. (previously presented) The method of claim 203, further comprising storing an image date, a sorter ID number, a sorter cycle and a sequence number in said image data index.

205. (previously presented) The method of claim 204, further comprising storing a database identifier in said image data index.

206. (previously presented) The method of claim 175, further comprising storing a transaction selected from the group consisting of an ATM transaction, a wire transaction, a phone access transaction, a debit card transaction and an online transaction.

207. (previously presented) The method of claim 175, further comprising searching the all items data structure via said request interpreter comprising an all items request interpreter.

208. (previously presented) The method of claim 175, further comprising searching the cash letter items data structure via said request interpreter comprising a cash letter request interpreter.

209. (previously presented) The method of claim 175, further comprising directing a search request to the request processor via said request director.

210. (previously presented) The method of claim 175, further comprising processing a search request for all entries via said request processor comprising an all entries request processor.

211. (previously presented) The method of claim 175, further comprising processing a search request for all items via said request processor comprising an all items request processor.

212. (previously presented) The method of claim 175, further comprising processing a search request for cash letter items via said request processor comprising a cash letter items

request processor.

213. (previously presented) The method of claim 175, further comprising storing on-us items in an on-us items file.

214. (previously presented) The method of claim 213, further comprising storing said on-us items file in a VSAM file.

215. (previously presented) The method of claim 213, further comprising storing said on-us items file online.

216. (previously presented) The method of claim 175, further comprising storing MICR codeline data, a posted amount, a bank ID number, an account number and a posting date in said on-us items archive file.

217. (previously presented) The method of claim 216, further comprising storing said MICR codeline data comprising of a routing/transit number, an account number and a serial number in said on-us items archive file.

218. (previously presented) The method of claim 217, further comprising storing said MICR codeline data comprising a process control field in said on-us items archive file.

219. (previously presented) The method of claim 175, further comprising storing at

least one additional data field selected from the group consisting of a sequence number, payee account number, transaction code and import source in said on-us items archive file.

220. (previously presented) The method of claim 175, further comprising storing said on-us items archive file in a VSAM file.

221. (previously presented) The method of claim 175, further comprising storing said on-us items archive file on magnetic tape.

222. (previously presented) The method of claim 175, further comprising storing said on-us items archive index in a VSAM file.

223. (previously presented) The method of claim 175, further comprising storing said on-us items archive index on a DASD.

224. (previously presented) The method of claim 175, further comprising storing an all entries file in said all items data structure.

225. (previously presented) The method of claim 224, further comprising storing a capture site, a capture date, and an entry number in said all entries file.

226. (previously presented) The method of claim 225, further comprising storing block information, the block information being comprised of a block sequence number and a block

amount, for an entry.

227. (previously presented) The method of claim 226, further comprising storing batch information, said batch information being comprised of a batch sequence number and a batch amount, for a block.

228. (previously presented) The method of claim 224, further comprising storing said all entries file in a VSAM file.

229. (previously presented) The method of claim 224, further comprising storing said all entries file online.

230. (previously presented) The method of claim 224, further comprising storing said all entries file on a DASD.

231. (previously presented) The method of claim 224, further comprising storing an all items file in said all items data structure.

232. (previously presented) The method of claim 231, further comprising storing item information, said item information being comprised of MICR codeline data, an item amount, and an item sequence number, in said all items file.

233. (previously presented) The method of claim 231, further comprising storing said

all items file in a VSAM file.

234. (previously presented) The method of claim 231, further comprising storing said all items file online.

235. (previously presented) The method of claim 231, further comprising storing said all items file on a DASD.

236. (previously presented) The method of claim 175, further comprising storing item information, said item information being comprised of MICR codeline data, an item amount, and an item sequence number, in said all items archive file.

237. (previously presented) The method of claim 175, further comprising storing said all items archive file in a VSAM file.

238. (previously presented) The method of claim 175, further comprising storing said all items archive file on magnetic tape.

239. (previously presented) The method of claim 175, further comprising storing said all items archive index in a VSAM file.

240. (previously presented) The method of claim 175, further comprising storing said all items archive index on a DASD.

241. (previously presented) The method of claim 175, further comprising storing a cash letter items file in said cash letter items data structure.

242. (previously presented) The method of claim 241, further comprising storing an end point identifier, a cash letter date, a cash letter amount and a cash letter time in said cash letter items file.

243. (previously presented) The method of claim 241, further comprising storing said cash letter items file in a VSAM file.

244. (previously presented) The method of claim 241, further comprising storing said cash letter items file on a DASD.

245. (previously presented) The method of claim 175, further comprising storing a bundle items file in said cash letter items data structure.

246. (previously presented) The method of claim 245, further comprising storing at least one bundle, wherein said at least one bundle is comprised of a bundle amount, a bundle time, and a bundle date, in said bundle items file.

247. (previously presented) The method of claim 246, further comprising storing at least one item, said at least one item being comprised of MICR codeline data and an item

amount, in said at least one bundle.

248. (previously presented) The method of claim 245, further comprising storing said bundle items file in a VSAM file.

249. (previously presented) The method of claim 245, further comprising storing said bundle items file online.

250. (previously presented) The method of claim 245, further comprising storing said bundle items file on a DASD.

251. (previously presented) The method of claim 175, further comprising storing a bundle items archive file in said cash letter items data structure.

252. (previously presented) The method of claim 251, further comprising storing at least one bundle, wherein said at least one bundle is comprised of a bundle amount, a bundle time, and a bundle date, in said bundle items archive file.

253. (previously presented) The method of claim 252, further comprising storing at least one item, said at least one item being comprised of MICR codeline data and an item amount, in said at least one bundle.

254. (previously presented) The method of claim 251, further comprising storing said

bundle items archive file in a VSAM file.

255. (previously presented) The method of claim 251, further comprising storing said bundle items archive file offline.

256. (previously presented) The method of claim 251, further comprising storing bundle items archive file on magnetic tape.

257. (previously presented) The method of claim 251, further comprising storing a bundles items archive index, wherein the bundle items archive index is an index to the bundle items archive file, in said cash letter items data structure.

258. (previously presented) The method of claim 257, further comprising storing said bundle items archive index in a VSAM file.

259. (previously presented) The method of claim 257, further comprising storing said bundle items archive index online.

260. (previously presented) The method of claim 257, further comprising storing said bundle items archive index is on a DASD.

261. A computer program product encoded in one or more computer storage media for executing by a computer, the computer program product comprising instructions for:

- (a) capturing images and information from a plurality of items each of which relates to a transaction, wherein the plurality of items are comprised of on-us items and cash letter items;
- (b) storing images of the captured on-us items in an on-us items image database and storing images of the captured cash letter items in a cash letter items image database; and
- (c) storing the information captured from the plurality of items in multiple data structures, said storing step being comprised of: (i) storing on-us items in an on-us items data structure, said on-us items data structure being further comprised of an on-us items archive file and an on-us items archive index, wherein the on-us items archive index is an index to the on-us items archive file, storing the on-us items archive file offline and storing the on-us items archive index online, (ii) storing all items in an all items data structure, said all items data structure being further comprised of an all items archive file and an all items archive index, wherein the all items archive index is an index to the all items archive file, storing the all items archive file offline and storing the all items archive index online, and (iii) storing cash letter items in a cash letter items data structure, said cash letter items data structure being further comprised of a cash letter items archive file and a cash letter items archive index, wherein the cash letter items archive index is an index to the cash letter items archive file, storing the cash letter items archive file offline and storing the cash letter items archive index online; and
- (d) receiving an item request, said item request comprising a request for information stored in step (c), and directing a response to the item request;

wherein on-us items are items that are drawn on a financial institution capturing the item, and cash letter items are items that are drawn on a financial institution other than a financial institution capturing the item.

262. (previously presented) The computer program product of claim 261, further comprising instructions for storing a plurality of credit transactions and a plurality of debit transactions in the on-us items data structure.

263. (previously presented) The computer program product of claim 262, further comprising instructions for associating each of the plurality of credit transactions and debit transactions with an account number.

264. (previously presented) The computer program of claim 263, further comprising instructions for storing MICR codeline data, a posted account number, a bank ID number and a posting date for each of the plurality of credit transactions and debit transactions.

265. (previously presented) The computer program of claim 264, further comprising instructions for storing MICR codeline data comprising an account number for an associated payee account, an amount and a credit account code for each of the plurality of credit transactions.

266. (previously presented) The computer program of claim 265, further comprising instructions for associating each of the plurality of credit transactions with one or more corresponding debit transactions, and associating each of the one or more corresponding debit

transactions with an account number associated with a payor account.

267. (previously presented) The computer program of claim 266, further comprising instructions for storing MICR codeline data comprising one or more additional data fields selected from the group consisting of a routing/transit number, a serial number and a process control field for each of the plurality of credit transactions.

268. (previously presented) The computer program of claim 266, further comprising instructions for storing at least one additional data field selected from the group consisting of a sequence number, transaction code and import source for each of the plurality of credit transactions.

269. (previously presented) The computer program of claim 264, further comprising instructions for storing MICR codeline data comprising a routing/transit number, an account number for the associated payor account and an amount for each of the plurality of debit transactions.

270. (previously presented) The computer program of claim 269, further comprising instructions for associating each of the plurality of debit transactions with a corresponding credit transaction, and associating each of the corresponding credit transactions with an account number associated with a payee account.

271. (previously presented) The computer program of claim 270, further comprising

instructions for storing MICR codeline date comprising at least one additional data field selected from the group consisting of a serial number and a process control field for each of the plurality of debit transactions.

272. (previously presented) The computer program of claim 270, further comprising instructions for storing at least one additional data field selected from the group consisting of a sequence number, transaction code and import source for each of the plurality of debit transactions.

273. (previously presented) The computer program of claim 261, further comprising instructions for storing a plurality of debit transactions in the all items data structure.

274. (previously presented) The computer program of claim 273, further comprising instructions for storing MICR codeline data comprising of a routing/transit number, an account number for the associated payor account and an amount for each of the plurality of debit transactions.

275. (previously presented) The computer program of claim 273, further comprising instructions for associating each of the plurality of debit transactions with a corresponding credit transaction, and associating each of the corresponding credit transactions with an account number associated with a payee account.

276. (previously presented) The computer program of claim 275, further comprising

instructions for storing MICR codeline data comprising at least one additional data field selected from the group consisting of a serial number and a process control field with each of the plurality of debit transactions.

277. (previously presented) The computer program of claim 275, further comprising instructions for storing at least one additional data field selected from the group consisting of a sequence number, transaction code and import source for each of the plurality of debit transactions.

278. (previously presented) The computer program of claim 261, further comprising instructions for associating each of a plurality of transactions stored in the on-us items data structure with a corresponding transaction stored in the all items data structure.

279. (previously presented) The computer program of claim 261, further comprising instructions for associating each of a plurality of transactions of the cash letter items data structure with a corresponding transaction stored in the all items data structure.

280. (previously presented) The computer program of claim 261, further comprising instructions for associating each of a plurality of transactions of the cash letter items data structure with a corresponding transaction stored in the on-us items data structure.

281. (previously presented) The computer program of claim 261, further comprising instructions for associating each of the plurality of images of the on-us items image database

with a corresponding one of the plurality of transactions of the on-us items data structure.

282. (previously presented) The computer program of claim 261, further comprising instructions for associating each of the plurality of images of the on-us items image database with a corresponding one of the plurality of transactions of the all items data structure.

283. (previously presented) The computer program of claim 261, further comprising instructions for associating each of the plurality of images of the cash letter items image database with a corresponding one of the plurality of transactions of the cash letter items data structure.

284. (previously presented) The computer program of claim 261, further comprising instructions for associating each of the plurality of images of the cash letter items image database with a corresponding one of the plurality of transactions of the all items data structure.

285. (previously presented) The computer program of claim 261, further comprising instructions for storing a bank ID number, an account number, and an image date in said on-us items image database

286. (previously presented) The computer program of claim 261, further comprising instructions for storing a sorter ID number, an image date, and a sequence number in said cash letter items image database.

287. (previously presented) The computer program of claim 261, further comprising instructions for storing images of white paper in a white paper image database.

288. (previously presented) The computer program of claim 287, further comprising instructions for storing an account number and an image date in said white paper image database.

289. (previously presented) The computer program of claim 261, further comprising instructions for providing an image data index.

290. (previously presented) The computer program of claim 289, further comprising instructions for storing an image date, a sorter ID number, a sorter cycle and a sequence number in said image data index.

291. (previously presented) The computer program of claim 290, further comprising instructions for storing a database identifier in said image data index.

292. (previously presented) The computer program of claim 261, further comprising instructions for storing a transaction selected from the group consisting of an ATM transaction, a wire transaction, a phone access transaction, a debit card transaction and an online transaction.

293. (previously presented) The computer program of claim 261, further comprising instructions for searching the all items data structure via said request interpreter comprising an all items request interpreter.

294. (previously presented) The computer program of claim 261, further comprising

instructions for searching the cash letter items data structure via said request interpreter comprising a cash letter request interpreter.

295. (previously presented) The computer program of claim 261, further comprising instructions for directing a search request to the request processor via said request director.

296. (previously presented) The computer program of claim 261, further comprising instructions for processing a search request for all entries via said request processor comprising an all entries request processor.

297. (previously presented) The computer program of claim 261, further comprising instructions for processing a search request for all items via said request processor comprising an all items request processor.

298. (previously presented) The computer program of claim 261, further comprising instructions for processing a search request for cash letter items via said request processor comprising a cash letter items request processor.

299. (previously presented) The computer program of claim 261, further comprising instructions for storing on-us items in an on-us items file.

300. (previously presented) The computer program of claim 299, further comprising instructions for storing said on-us items file in a VSAM file.

301. (previously presented) The computer program of claim 299, further comprising instructions for storing said on-us items file online.

302. (previously presented) The computer program of claim 261, further comprising instructions for storing MICR codeline data, a posted amount, a bank ID number, an account number and a posting date in said on-us items archive file.

303. (previously presented) The computer program of claim 302, further comprising instructions for storing said MICR codeline data comprising of a routing/transit number, an account number and a serial number in said on-us items archive file.

304. (previously presented) The computer program of claim 303, further comprising instructions for storing said MICR codeline data comprising a process control field in said on-us items archive file.

305. (previously presented) The computer program of claim 261, further comprising instructions for storing at least one additional data field selected from the group consisting of a sequence number, payee account number, transaction code and import source in said on-us items archive file.

306. (previously presented) The computer program of claim 261, further comprising instructions for storing said on-us items archive file in a VSAM file.

307. (previously presented) The computer program of claim 261, further comprising instructions for storing said on-us items archive file on magnetic tape.

308. (previously presented) The computer program of claim 261, further comprising instructions for storing said on-us items archive index in a VSAM file.

309. (previously presented) The computer program of claim 261, further comprising instructions for storing said on-us items archive index on a DASD.

310. (previously presented) The computer program of claim 261, further comprising instructions for storing an all entries file in said all items data structure.

311. (previously presented) The computer program of claim 310, further comprising instructions for storing a capture site, a capture date, and an entry number in said all entries file.

312. (previously presented) The computer program of claim 311, further comprising instructions for storing block information, the block information being comprised of a block sequence number and a block amount, for an entry.

313. (previously presented) The computer program of claim 312, further comprising instructions for storing batch information, said batch information being comprised of a batch sequence number and a batch amount, for a block.

314. (previously presented) The computer program of claim 310, further comprising instructions for storing said all entries file in a VSAM file.

315. (previously presented) The computer program of claim 310, further comprising instructions for storing said all entries file online.

316. The computer program of claim 310, further comprising instructions for storing said all entries file on a DASD.

317. (previously presented) The computer program of claim 310, further comprising instructions for storing an all items file in said all items data structure.

318. (previously presented) The computer program of claim 317, further comprising instructions for storing item information, said item information being comprised of MICR codeline data, an item amount, and an item sequence number, in said all items file.

319. (previously presented) The computer program of claim 317, further comprising instructions for storing said all items file in a VSAM file.

320. (previously presented) The computer program of claim 317, further comprising instructions for storing said all items file online.

321. (previously presented) The computer program of claim 317, further comprising instructions for storing said all items file on a DASD.

322. (previously presented) The computer program of claim 261, further comprising instructions for storing item information, said item information being comprised of MICR codeline data, an item amount, and an item sequence number, in said all items archive file.

323. (previously presented) The computer program of claim 261, further comprising instructions for storing said all items archive file in a VSAM file.

324. (previously presented) The computer program of claim 261, further comprising instructions for storing said all items archive file on magnetic tape.

325. (previously presented) The computer program of claim 261, further comprising instructions for storing said all items archive index in a VSAM file.

326. (previously presented) The computer program of claim 261, further comprising instructions for storing said all items archive index on a DASD.

327. (previously presented) The computer program of claim 261, further comprising instructions for storing a cash letter items file in said cash letter items data structure.

328. (previously presented) The computer program of claim 327, further comprising

instructions for storing an end point identifier, a cash letter date, a cash letter amount and a cash letter time in said cash letter items file.

329. (previously presented) The computer program of claim 327, further comprising instructions for storing said cash letter items file in a VSAM file.

330. (previously presented) The computer program of claim 327, further comprising instructions for storing said cash letter items file on a DASD.

331. (previously presented) The computer program of claim 261, further comprising instructions for storing a bundle items file in said cash letter items data structure.

332. (previously presented) The computer program of claim 331, further comprising instructions for storing at least one bundle, wherein said at least one bundle is comprised of a bundle amount, a bundle time, and a bundle date, in said bundle items file.

333. (previously presented) The computer program of claim 332, further comprising instructions for storing at least one item, said at least one item being comprised of MICR codeline data and an item amount, in said at least one bundle.

334. (previously presented) The computer program of claim 331, further comprising instructions for storing said bundle items file in a VSAM file.

335. (previously presented) The computer program of claim 331, further comprising instructions for storing said bundle items file online.

336. (previously presented) The computer program of claim 331, further comprising instructions for storing said bundle items file on a DASD.

337. (previously presented) The computer program of claim 261, further comprising instructions for storing a bundle items archive file in said cash letter items data structure.

338. (previously presented) The computer program of claim 337, further comprising instructions for storing at least one bundle, wherein said at least one bundle is comprised of a bundle amount, a bundle time, and a bundle date, in said bundle items archive file.

339. (previously presented) The computer program of claim 338, further comprising instructions for storing at least one item, said at least one item being comprised of MICR codeline data and an item amount, in said at least one bundle.

340. (previously presented) The computer program of claim 337, further comprising instructions for storing said bundle items archive file in a VSAM file.

341. (previously presented) The computer program of claim 337, further comprising instructions for storing said bundle items archive file offline.

342. The computer program of claim 337, further comprising instructions for storing bundle items archive file on magnetic tape.

343. (previously presented) The computer program of claim 337, further comprising instructions for storing a bundles items archive index, wherein the bundle items archive index is an index to the bundle items archive file, in said cash letter items data structure.

344. (previously presented) The computer program of claim 343, further comprising instructions for storing said bundle items archive index in a VSAM file.

345. (previously presented) The computer program of claim 343, further comprising instructions for storing said bundle items archive index online.

346. (previously presented) The computer program of claim 343, further comprising instructions for storing said bundle items archive index is on a DASD.